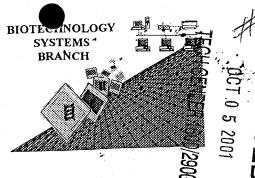# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/550,605_

Source: _OIPE_

Date Processed by STIC: _08/23/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _09/550,605_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
    Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
    prevent "wrapping."

2____Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
    Numbering   use space characters, instead.

4____Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
    ensure your subsequent submission is saved in ASCII text.

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
    each n or Xaa can only represent a single residue. Please present the maximum number of each
    residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
    "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
    previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
    the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for**
    Artificial or Unknown sequences.

7____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
    (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    This sequence is intentionally skipped

    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
    (NEW RULES)   <210> sequence id number
    <400> sequence id number
    000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
    (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
    Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
    is Artificial Sequence

11 _✓_Use of <220>   Sequence(s) _5_ missing the <220> "Feature" and associated numeric identifiers and responses.
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
    "Unknown." Please explain source of genetic material in <220> to <223> section.
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
    "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
    listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING   DATE: 08/23/2001
PATENT APPLICATION: US/09/550,605   TIME: 11:26:59

Input Set : A:\p20434us-m.txt
Output Set: N:\CRF3\08162001\I550605.raw

```
      5 <110> APPLICANT: Melica HB
      7        Andersson, Leif                    Does Not Comply
      9        Marklund, Stefan             Corrected Diskette Needed
     11        Kijas, James
     13        Moller, Maria                     See page 2 of 5
     15        Wales, Richard
     19 <120> TITLE OF INVENTION: Methods for determining Coat colour genotypes in pigs
     23 <130> FILE REFERENCE: 064727.0109
C--> 27 <140> CURRENT APPLICATION NUMBER: US/09/550,605
     29 <141> CURRENT FILING DATE: 2000-04-17
     33 <150> PRIOR APPLICATION NUMBER: GB 9722027.1
     35 <151> PRIOR FILING DATE: 1997-10-17
     39 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03081
     41 <151> PRIOR FILING DATE: 1998-10-13
     45 <160> NUMBER OF SEQ ID NOS: 11
     49 <170> SOFTWARE: PatentIn version 3.1
     53 <210> SEQ ID NO: 1
     55 <211> LENGTH: 22
     57 <212> TYPE: DNA
     59 <213> ORGANISM: Artificial sequence
     63 <220> FEATURE:
     65 <223> OTHER INFORMATION: Primer
     67 <400> SEQUENCE: 1
     68 gtattcacag agacttggcg gc                                        22
     71 <210> SEQ ID NO: 2
     73 <211> LENGTH: 24
     75 <212> TYPE: DNA
     77 <213> ORGANISM: Artificial sequence
     81 <220> FEATURE:
     83 <223> OTHER INFORMATION: Primer
     85 <400> SEQUENCE: 2
     86 aaacctgcaa ggaaaatcct tcac                                      24
     89 <210> SEQ ID NO: 3
     91 <211> LENGTH: 25
     93 <212> TYPE: DNA
     95 <213> ORGANISM: Artificial sequence
     99 <220> FEATURE:
    101 <223> OTHER INFORMATION: Primer
    103 <400> SEQUENCE: 3
    104 tcrtacatag aaagagaygt gactc                                     25
    107 <210> SEQ ID NO: 4
    109 <211> LENGTH: 23
    111 <212> TYPE: DNA
    113 <213> ORGANISM: Artificial sequence
    117 <220> FEATURE:
    119 <223> OTHER INFORMATION: Primer
    121 <400> SEQUENCE: 4
```

RAW SEQUENCE LISTING   DATE: 08/23/2001
PATENT APPLICATION: US/09/550,605   TIME: 11:26:59

Input Set : A:\p20434us-m.txt
Output Set: N:\CRF3\08162001\I550605.raw

```
      122 agccttcctt gatcatcttg tag                                    23
      125 <210> SEQ ID NO: 5
      127 <211> LENGTH: 26
      129 <212> TYPE: DNA
C--> 131 <213> ORGANISM: Artificial
W--> 135 <220> FEATURE:
W--> 135 <223> OTHER INFORMATION:
      135 <400> SEQUENCE: 5.
      136 aaacctgcaa ggaaaatcct tcacgg
      139 <210> SEQ ID NO: 6
      141 <211> LENGTH: 24
      143 <212> TYPE: DNA
      145 <213> ORGANISM: Artificial sequence
      149 <220> FEATURE:
      151 <223> OTHER INFORMATION: Primer
      153 <400> SEQUENCE: 6
      154 ctccttactc atggtcgaat caca                                   24
      157 <210> SEQ ID NO: 7
      159 <211> LENGTH: 21
      161 <212> TYPE: DNA
      163 <213> ORGANISM: Artificial sequence
      167 <220> FEATURE:
      169 <223> OTHER INFORMATION: Primer
      171 <400> SEQUENCE: 7
      172 cggctaaaat gcatggtatg g                                      21
      175 <210> SEQ ID NO: 8
      177 <211> LENGTH: 27
      179 <212> TYPE: DNA
      181 <213> ORGANISM: Artificial sequence
      185 <220> FEATURE:
      187 <223> OTHER INFORMATION: Primer
      189 <400> SEQUENCE: 8
      190 tcaaaggaaa catgagtacc cacgctc                                27
      193 <210> SEQ ID NO: 9
      195 <211> LENGTH: 25
      197 <212> TYPE: DNA
      199 <213> ORGANISM: Artificial sequence
      203 <220> FEATURE:
      205 <223> OTHER INFORMATION: Primer
      207 <400> SEQUENCE: 9
      208 tcaaaggaaa cgtgagtacc cacgc                                  25
      211 <210> SEQ ID NO: 10
      213 <211> LENGTH: 48
      215 <212> TYPE: DNA
      217 <213> ORGANISM: Sus scrofa
      221 <400> SEQUENCE: 10
      222 aattacgtgg tcaaaggaaa cgtgagtacc cacgctctcc tgacagtc         48
      225 <210> SEQ ID NO: 11
      227 <211> LENGTH: 48
```

[Handwritten annotation:] Errored The 213 response "Artificial", "Artificial Sequence" or "Unknown" requires an explanation or description in field 223

[Handwritten annotation near line 151:] OK

RAW SEQUENCE LISTING   DATE: 08/23/2001
PATENT APPLICATION: US/09/550,605 TIME: 11:26:59

Input Set : A:\p20434us-m.txt
Output Set: N:\CRF3\08162001\I550605.raw

```
229 <212> TYPE: DNA
231 <213> ORGANISM: Sus scrofa
235 <400> SEQUENCE: 11
236 aattacgtgg tcaaaggaaa catgagtacc cacgctctcc tgacagtc          48
```

STATISTICS SUMMARY
PATENT APPLICATION: US/09/550,605

DATE: 08/23/2001
TIME: 11:27:00

Input Set : A:\p20434us-m.txt
Output Set: N:\CRF3\08162001\I550605.raw

Application Serial Number: US/09/550,605
Alpha or Numeric: Numeric
Application Class:
Application File Date: 04-17-2000
Art Unit: OIPE
Software Application: PatentIn
Total Number of Sequences: 11
Total Nucleotides: 313
Total Amino Acids: 0
Number of Errors: 0
Number of Warnings: 2
Number of Corrections: 2

MESSAGE SUMMARY

220 C: 1 (Keyword misspelled or invalid format)
258 W: 2 (Mandatory Feature missing)
270 C: 1 (Current Application Number differs)